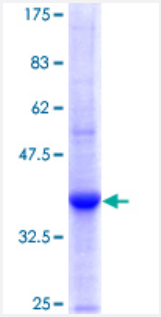
UGT1A3 (Human) Recombinant Protein (Q01)

Catalog # H00054659-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human UGT1A3 partial ORF (NP_061966, 30 a.a. - 129 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	KVLVVPIDGSHWLSMREVLRELHARGHQAVVLTPEVNMHIKEENFFTLTTYAISWTQDEFDRHVL GHTQLYFETEHFLKKFFRSMAMLNNMSLVYHRSCV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (75); Rat (77)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — UGT1A3

Entrez GeneID	54659
GeneBank Accession#	NM_019093
Protein Accession#	NP_061966
Gene Name	UGT1A3
Gene Alias	UGT1C
Gene Description	UDP glucuronosyltransferase 1 family, polypeptide A3
Omim ID	606428
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a UDP-glucuronosyltransferase, an enzyme of the glucuronidation pathway tha t transforms small lipophilic molecules, such as steroids, bilirubin, hormones, and drugs, into wate r-soluble, excretable metabolites. This gene is part of a complex locus that encodes several UDP-glucuronosyltransferases. The locus includes thirteen unique alternate first exons followed by four common exons. Four of the alternate first exons are considered pseudogenes. Each of the remai ning nine 5' exons may be spliced to the four common exons, resulting in nine proteins with differe nt N-termini and identical C-termini. Each first exon encodes the substrate binding site, and is reg ulated by its own promoter. Substrates of this enzyme include estrone, 2-hydroxyestrone, and met abolites of benzo alpha-pyrene. [provided by RefSeq
Other Designations	OTTHUMP00000065193|UDP glucuronosyltransferase 1A3|UDP glycosyltransferase 1 family, po lypeptide A3|UDP-glucuronosyltransferase

Pathway

- Androgen and estrogen metabolism
- Ascorbate and aldarate metabolism
- Drug metabolism - cytochrome P450
- Drug metabolism - other enzymes
- Metabolic pathways
- Metabolism of xenobiotics by cytochrome P450
- Pentose and glucuronate interconversions
- Porphyrin and chlorophyll metabolism
- Retinol metabolism
- Starch and sucrose metabolism

Disease

- Adenomatous Polyposis Coli
- Carcinoma
- Cardiovascular Diseases
- Colon cancer
- Diabetes Mellitus
- Drug-Induced Liver Injury
- Duodenal Neoplasms
- Edema
- Genetic Predisposition to Disease
- Gilbert Disease
- Hearing Loss
- Hyperbilirubinemia
- Liver Neoplasms